

INTERNATIONAL SEARCH REPORT

PCT/GB2004/004519

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G02B6/38

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G02B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 93/24851 A (DU PONT) 9 December 1993 (1993-12-09)	1-3,6,7, 13, 24-27, 34,35
Y	page 5, line 27 - page 6, line 32 page 13, line 26 - page 14, line 33; figures 1-14	31
A	----- -/--	4,5, 8-12,39

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

17 December 2004

Date of mailing of the international search report

15. 07. 2005

Name and mailing address of the ISA

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB2004/004519

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 404 417 A (JOHNSON MELVIN H ET AL) 4 April 1995 (1995-04-04) column 6, line 28 - line 44 column 7, line 47 - column 8, line 16 column 24, line 10 - line 35 column 24, line 59 - column 25, line 15; figures 1-52	1-3,6,7, 13, 24-27, 34,35
Y A		31 4,5, 8-12,39
X	WO 93/05418 A (DU PONT) 18 March 1993 (1993-03-18) page 15, line 8 - line 23 page 48, line 6 - line 19 page 49, line 33 - page 54, line 23; figures 1-52	1-3,6,7, 13, 24-27, 34-38
Y A		31 4,5, 8-12,39
X	US 5 102 212 A (PATTERSON RICHARD A) 7 April 1992 (1992-04-07) column 6, line 59 - column 8, line 27; figures 7,11,13	1-3,7, 14,24, 32-35
X	EP 0 116 481 A (SILEC LIAISONS ELEC ; TELECOMMUNICATIONS SA (FR)) 22 August 1984 (1984-08-22) page 6, line 35 - page 8, line 35; figures 3-5	1-3,7, 14,15, 23-27, 32,33
X	EP 0 226 482 A (TELECOMMUNICATIONS SA ; SILEC LIAISONS ELEC (FR)) 24 June 1987 (1987-06-24) column 3, line 6 - column 4, line 32; figures 1-4	1-3,7, 14,15, 23,24, 32,33
X	PATENT ABSTRACTS OF JAPAN vol. 1998, no. 03, 27 February 1998 (1998-02-27) -& JP 09 304643 A (TATSUTA ELECTRIC WIRE & CABLE CO LTD; NIPPON ELECTRIC GLASS CO LTD), 28 November 1997 (1997-11-28) abstract; figure 4	1-3,7, 14,15, 24,32,33
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>WO 86/01306 A (AMERICAN TELEPHONE & TELEGRAPH) 27 February 1986 (1986-02-27)</p> <p>page 8, line 22 - page 9, line 6; figure 4 -----</p>	<p>1-3,7, 14, 24-27, 32,33</p>

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/GB2004/004519

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.

2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-15, 23 (first alternative), 24-27, 31-39

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-15, 23(first alternative), 24 - 27, 31 - 39

Subject 1 relates to a splice connector with a connector body having at least two independent clamping sections each for clamping one of the bare fibre ends to be spliced.

2. claims: 16 - 22, 23 (second alternative) , 28 - 30

Subject 2 relates to a splice connector with a connector body having a bore with regions of different cross section diameters and of special shapes, and to fixing means located at the connector body for axially and rotationally retaining the optical fibres into the bores of the connector body.

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB2004/004519

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9324851	A	09-12-1993	US 5263105 A 16-11-1993
		AU 4376593 A 30-12-1993	
		MX 9303180 A1 31-05-1994	
		WO 9324851 A1 09-12-1993	
US 5404417	A	04-04-1995	AU 2689492 A 05-04-1993
		CA 2116668 A1 18-03-1993	
		EP 0608298 A1 03-08-1994	
		JP 6510142 T 10-11-1994	
		WO 9305415 A1 18-03-1993	
		AU 649620 B2 02-06-1994	
		AU 6042090 A 11-03-1991	
		EP 0485415 A1 20-05-1992	
		IE 902780 A1 27-02-1991	
		JP 5500117 T 14-01-1993	
		US 5377289 A 27-12-1994	
		WO 9102272 A1 21-02-1991	
WO 9305418	A	18-03-1993	AU 2754892 A 05-04-1993
		CA 2116667 A1 18-03-1993	
		EP 0601127 A1 15-06-1994	
		JP 6510383 T 17-11-1994	
		US 5377289 A 27-12-1994	
		WO 9305418 A1 18-03-1993	
US 5102212	A	07-04-1992	US 4824197 A 25-04-1989
		US 5013123 A 07-05-1991	
		US 5189717 A 23-02-1993	
		US 5138681 A 11-08-1992	
		AT 123879 T 15-06-1995	
		AU 622647 B2 16-04-1992	
		AU 3145089 A 19-10-1989	
		BR 8901692 A 21-11-1989	
		CA 1307145 C 08-09-1992	
		DE 68923034 D1 20-07-1995	
		DE 68923034 T2 25-01-1996	
		EP 0338759 A2 25-10-1989	
		ES 2072898 T3 01-08-1995	
		HK 1007601 A1 16-04-1999	
		JP 2012112 A 17-01-1990	
		JP 2710397 B2 10-02-1998	
		KR 172113 B1 01-05-1999	
		MX 171333 B 19-10-1993	
		US 5159653 A 27-10-1992	
		ZA 8902805 A 28-12-1990	
		AT 128247 T 15-10-1995	
		AU 641695 B2 30-09-1993	
		AU 6451390 A 23-05-1991	
		BR 9005750 A 24-09-1991	
		CA 2027476 A1 16-05-1991	
		CN 1051795 A ,C 29-05-1991	
		CS 9005574 A3 17-06-1992	
		DE 69022551 D1 26-10-1995	
		DE 69022551 T2 02-05-1996	
		DK 431768 T3 05-02-1996	
		EP 0431768 A1 12-06-1991	
		ES 2077039 T3 16-11-1995	
		HK 1007804 A1 23-04-1999	

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB2004/004519

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5102212	A		HU 3603 A1	28-01-1992
			JP 3070947 B2	31-07-2000
			JP 3172805 A	26-07-1991
			KR 181500 B1	15-05-1999
			MX 172161 B	06-12-1993
			SK 280526 B6	13-03-2000
			RU 2032194 C1	27-03-1995
			ZA 9008527 A	24-06-1992
EP 0116481	A	22-08-1984	FR 2538919 A1	06-07-1984
			DE 3463186 D1	21-05-1987
			EP 0116481 A1	22-08-1984
			US 4634216 A	06-01-1987
EP 0226482	A	24-06-1987	FR 2589250 A1	30-04-1987
			EP 0226482 A1	24-06-1987
JP 09304643	A	28-11-1997	NONE	
WO 8601306	A	27-02-1986	US 4662713 A	05-05-1987
			CA 1270681 A1	26-06-1990
			DE 3573665 D1	16-11-1989
			EP 0191064 A1	20-08-1986
			JP 61503053 T	25-12-1986
			WO 8601306 A1	27-02-1986

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